

**EAST Search History****EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L3	16	("4706893"   "4726846"   "4908064").PN. OR ("5236497").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/14 13:40
S1	6285	"209/3" "209/38" "209/234" "209/309" "209/325" "209/326" "241/18" "241/21" "241/27" "241/29" "241/79"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/09/13 15:35
S2	5	((asphalt shingle near3 (sort\$3 separat\$3 screen\$3)) same ((shred\$4 crush\$3) and ratio)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/09/13 14:39
S3	33	((asphalt shingle fiberglass) near3 (sort\$3 separat\$3 screen\$3)) same ((shred\$4 crush\$3) and (rock granular aggregate))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/09/13 14:40
S4	33	((asphalt shingle fiberglass) near3 (sort\$3 separat\$3 screen\$3)) same ((shred\$4 crush\$3) and (rock granular aggregate))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/22 11:29
S5	6285	"209/3" "209/38" "209/234" "209/309" "209/325" "209/326" "241/18" "241/21" "241/27" "241/29" "241/79"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/09/13 17:01
S6	33	((asphalt shingle fiberglass) near3 (sort\$3 separat\$3 screen\$3)) same ((shred\$4 crush\$3) and (rock granular aggregate))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/03 14:28

S7	47	("0108334"   "0512348"   "0597892"   "1190633"   "2075835"   "2128191"   "2130144"   "2455923"   "2967116"   "3054230"   "3060044"   "3197413"   "3235482"   "3235483"   "3250394"   "3260610"   "3271293"   "3305474"   "3671615"   "3718536"   "3784464"   "4058406"   "4096057"   "4100059"   "4111730"   "4172025"   "4197014"   "4222851"   "4250023"   "4269693"   "4325641"   "4359381"   "4395326"   "4401645"   "4416764"   "4477250"   "4517072"   "4545892"   "4706893"   "4802139"   "4934111"   "4946597"   "5066388"   "5098025"   "5201472"   "5217530"   "5242580").PN.	USPAT	OR	ON	2004/09/13 15:52
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S8	13	("3969851"   "4325641"   "4330340"   "4706893"   "4726846"   "5098025"   "5173115"   "5201472"   "5221338"   "5223032"   "5236497"   "5242493"   "5385426").PN.	USPAT	OR	ON	2004/09/13 16:14
S9	4	("3825192"   "4210290"   "4325641"   "4627577").PN.	USPAT	OR	ON	2004/09/13 16:17
S10	4	("3825192"   "4210290"   "4325641"   "4627577").PN.	USPAT	OR	ON	2004/09/13 16:19
S11	5	"4627577".URPN.	USPAT	OR	ON	2004/09/13 16:19
S12	69	((asphalt shingle fiberglass) near3 (sort \$3 separat\$3 screen \$3)) same ((shred\$4 crush\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/09/13 16:23
S13	10	((("4222850") or ("5451003") or ("4222851")).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/09/13 16:20
S14	8	"4222851".URPN.	USPAT	OR	ON	2004/09/13 16:22
S15	0	("209/3" "209/38" "209/234" "209/309" "209/325" "209/326" "241/18" "241/21" "241/27" "241/29" "241/79") and ((((asphalt shingle fiberglass) near3 (sort \$3 separat\$3 screen \$3)) same ((shred\$4 crush\$3))) not (((asphalt shingle fiberglass) near3 (sort \$3 separat\$3 screen \$3)) same ((shred\$4 crush\$3) and (rock granular aggregate))))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/09/13 16:23

S16	36	((("asphalt shingle fiberglass) near3 (sort \$3 separat\$3 screen \$3)) same ((shred\$4 crush\$3))) not (((asphalt shingle fiberglass) near3 (sort \$3 separat\$3 screen \$3)) same ((shred\$4 crush\$3) and (rock granular aggregate)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/09/13 16:23
S17	2	("3999743").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/09/13 16:43
S18	3913	((209/3) or (209/38) or (209/234) or (209/309) or (209/325) or (209/326) or (241/18) or (241/21) or (241/27) or (241/29) or (241/79)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/22 10:47
S19	2	("5337965").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/09/13 17:17
S20	6	"5337965".URPN.	USPAT	OR	ON	2004/09/13 17:17
S21	3914	((209/3) or (209/38) or (209/234) or (209/309) or (209/325) or (209/326) or (241/18) or (241/21) or (241/27) or (241/29) or (241/79)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/09/14 14:00
S22	4	((("5451003") or ("4095824")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/21 18:14
S23	4	((("5451003") or ("4095284")).PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/21 18:14

S24	5686	((209/3) or (209/38) or (209/234) or (209/309) or (209/325) or (209/326) or (241/18) or (241/21) or (241/27) or (241/29) or (241/79)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/03 14:30
S25	56	((asphalt shingle fiberglass) near3 (sort \$3 separat\$3 screen \$3 siev\$3 classify\$3)) same ((shred\$4 crush \$3 comminut\$3 cut \$4) and (rock granular aggregate))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/22 11:30
S26	13	((asphalt shingle fiberglass) near3 (sort \$3 separat\$3 screen \$3 siev\$3 classify\$3)) same ((shred\$4 crush \$3 comminut\$3 cut \$4) and (rock granular aggregate)). ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/22 11:36
S27	17	((asphalt fiberglass) near3 (sort\$3 separat\$3 screen\$3 siev\$3 classify\$3)) same ((shred\$4 crush\$3 comminut\$3 cut\$4) and (rock granular aggregate)) and (roof \$3 shingle)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/22 11:37
S28	65	("0108334"   "0512348"   "0597892"   "1190633"   "2075835"   "2128191"   "2130144"   "2455923"   "2967116"   "3054230"   "3060044"   "3197413"   "3235482"   "3235483"   "3250394"   "3260610"   "3271293"   "3305474"   "3671615"   "3718536"   "3784464"   "4058406"	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/22 11:39

		"4096057"   "4100059"   "4111730"   "4172025"   "4197014"   "4222851"   "4250023"   "4269693"   "4325641"   "4359381"   "4395326"   "4401645"   "4416764"   "4477250"   "4517072"   "4545892"   "4706893"   "4802139"   "4934111"   "4946597"   "5066388"   "5098025"   "5201472"   "5217530"   "5242580").PN.				
S29	2	("3260610").URPN.	USPAT	OR	ON	2005/06/22 11:44
S30	2	("4706893").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/22 12:05
S31	4	("3825192"   "4210290"   "4325641"   "4627577").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/22 14:44
S32	25	("0912126"   "1265259"   "1290954"   "1378637"   "1530895"   "1541849"   "1732281"   "2016306"   "2368371"   "2376447"   "3457136"   "3615804"   "3894724"   "3997355").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/22 14:45
S33	2	("2368371").URPN.	USPAT	OR	ON	2005/06/22 14:46

S34	2	("6497930").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/06/22 15:04
S35	0	((asphalt shingle fiberglass) near3 (sort \$3 separat\$3 screen \$3)) same ((shred\$4 crush\$3) and ((establish\$3 set\$3 control\$4 adjust\$3 modif\$4 chang\$4) near2 size))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/03 14:30
S36	5837	((209/3) or (209/38) or (209/234) or (209/309) or (209/325) or (209/326) or (241/18) or (241/21) or (241/27) or (241/29) or (241/79)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/08/03 14:30
S37	180	((sort\$3 classify\$3 separat\$3 screen\$3) near3 (comminut\$3 shred\$4 crush\$3)) same ((establish\$3 set \$3 control\$4 adjust\$3 modif\$4 chang\$4) near2 size)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/03 14:32
S38	7	S36 and S37	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/03 14:33
S39	291	((sort\$3 classify\$3 separat\$3 screen\$3) near3 (comminut\$3 shred\$4 crush\$3 grind \$4)) same ((establish \$3 set\$3 control\$4 adjust\$3 modif\$4 chang\$4) near2 size)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/03 14:32
S40	12	S36 and S39	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/03 14:33
S41	52	((asphalt shingle fiberglass) near3 (sort \$3 separat\$3 screen \$3)) same ((shred\$4 crush\$3) and (rock granular aggregate))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/12/04 15:19

S42	6130	((209/3) or (209/38) or (209/234) or (209/309) or (209/325) or (209/326) or (241/18) or (241/21) or (241/27) or (241/29) or (241/79)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2010/12/04 15:19
S43	9	((asphalt shingle fiberglass) near3 (sort \$3 separat\$3 screen \$3)) same ((shred\$4 crush\$3) and (rock granular asphalt aggregate) and ratio)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/12/04 15:20
S44	16	((asphalt shingle fiberglass) near3 (shred\$4 crush\$4 comminut\$4)) same ((sort\$3 separat\$3 classify\$3) and (rock granular asphalt aggregate) and ratio)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/12/04 15:21
S45	4	("5201472").PN. OR ("5626659").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/04 15:25
S46	3	("4587070").PN. OR ("6692669").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/04 15:27
S47	8	"838045".ap.	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/04 15:28
S48	13	(donald near2 mischo)	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/04 15:28
S49	14	(donald near2 mischo)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/12/04 15:28
S50	10	((rock granular aggregate asphalt) near4 ratio) same (adjust\$3 near5 (screen filter) and (size open))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/12/04 15:44
S51	10	((rock granular aggregate ) near4 ratio) same ((chang\$3 modify\$3 adjust\$3) near5 (screen filter) and (size open))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/12/04 16:10



S52	79	((rock granular aggregate ) near4 ratio) same ((chang\$3 modify\$3 adjust\$3) near5 (screen opening size filter) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/12/04 16:10
S53	0	S42 and S52	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/12/04 16:10
S54	33933	ratio same ((chang\$3 modify\$3 adjust\$3) near5 (screen opening size filter) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/12/04 16:10
S55	79	S54 and S52	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/12/04 16:11
S56	27	S54 and S42	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/12/04 16:11
S57	0	(target near5 (ratio percent\$4)) same (asphalt and (chang \$3 modify\$3 adjust \$3) near5 (screen opening size filter) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/12/04 16:13
S58	803	(target near5 (ratio percent\$4)) same ((chang\$3 modify\$3 adjust\$3) near5 (screen opening size filter) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/12/04 16:13
S59	0	S58 and S42	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/12/04 16:14
S60	4	("5201472").PN. OR ("5626659").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/04 16:28

S61	33	("0194776"   "1290954"   "1732281"   "20020011687"   "2368371"   "3664592"   "3825192"   "4189238"   "4222851"   "4325641"   "4706893"   "5098025"   "5201472"   "5221338"   "5221702"   "5223032"   "5236497"   "5337965"   "5340038"   "5344485"   "5367007"   "5385426"   "5511899"   "5626659"   "5848755"   "6039914"   "6497930"   "7052635").PN. OR ("7297301").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2010/12/04 16:30
S62	11	"5385426"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/12/04 16:33
S63	697	((ratio percent\$4 distribution mix) near3 (aggregate granule rock asphalt fine coarse)) same ((chang\$3 modify\$3 adjust\$3) near5 (screen opening size filter) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/12/04 16:43
S64	42	S63 and ("209"/\$.ccls. "241"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/12/04 16:43

S65	705	((ratio percent\$4 distribution mix) near3 (aggregate granule rock asphalt fine coarse)) same ((chang\$3 modify\$3 adjust\$3) near5 (screen opening size filter) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/14 09:57
S66	43	S65 and ("209"/\$.ccls. "241"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/14 09:57
S67	738	((ratio percent\$4 distribution mix) near3 (aggregate granule rock asphalt fine coarse)) same ((chang\$3 modify\$3 alter\$4 adjust\$3) near5 (screen opening size filter) )	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/14 09:57
S68	1498	((ratio percent\$4 distribution mix) near3 (aggregate granule rock asphalt fine coarse)) same ((chang\$3 modify\$3 alter\$4 adjust\$3) near5 ((screen opening size filter)(add \$4 combin\$4 mix\$4 blend\$4)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/14 09:58
S69	6139	((209/3) or (209/38) or (209/234) or (209/309) or (209/325) or (209/326) or (241/18) or (241/21) or (241/27) or (241/29) or (241/79)).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/01/14 09:58
S70	0	("I4andI5").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2011/01/14 09:59
S71	15	S68 and S69	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/14 09:59

S72	15	S68 and S69	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/14 09:59
S73	75	("0108334"   "0512348"   "0597892"   "1190633"   "2075835"   "2128191"   "2130144"   "2455923"   "2967116"   "3054230"   "3060044"   "3197413"   "3235482"   "3235483"   "3250394"   "3260610"   "3271293"   "3305474"   "3671615"   "3718536"   "3784464"   "4058406"   "4096057"   "4100059"   "4111730"   "4172025"   "4197014"   "4222851"   "4250023"   "4269693"   "4325641"   "4359381"   "4395326"   "4401645"   "4416764"   "4477250"   "4517072"   "4545892"   "4706893"   "4802139"   "4934111"   "4946597"   "5066388"   "5098025"   "5201472"   "5217530"   "5242580").PN. OR ("5337965").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/14 10:02

S74	52	((asphalt shingle fiberglass) near3 (sort \$3 separat\$3 screen \$3)) same ((shred\$4 crush\$3) and (rock granular aggregate))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/14 10:02
S75	5	S68 and S74	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/14 10:03
S76	5	S68 and S74	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2011/01/14 10:03
S77	23	("2701213"   "4145322"   "4279660"   "4359381"   "4373961"   "4946307"   "4974993"   "5000615"   "5223032"   "5236497"   "5242493").PN. OR ("5405440").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/14 10:42
S78	13	("4540287"   "5173115"   "5217530"   "5242493"   "5344485"   "5397389"   "5405440"   "6206607"   "6231663"   "6706108"   "6752273"   "7264667"   "7371277").PN. OR ("7597754").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2011/01/14 11:05

1/ 14/ 11 3:33:41 PM

H:\ East\ Workspaces\ 09838045AsphaltAggRatioTargetwShredding.wsp